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Material Safety Data Sheet

UPDATED 4/23/03

Section 1. Chemical Product and Company Identification

Common Name	Wilsonart [®] 860/861	Code	164-1USA
Supplier	WILSONART INTERNATIONAL INC. P.O. BOX 6110 - 2400 Wilson Place, Temple, TX 76503 Telephone: 800-433-3222 (U.S.A.) or 254-207-7000	MSDS#	164-1
Synonym	Also known as: Lokweld [®] 860/861	Validation Date	08/17/1999
Trade name	Wilsonart [®] 860/861	Print Date	09/27/1999
Material Uses	Spray grade adhesive for laminate.	Responsible Name	Wilsonart International Inc.
Manufacturer	WILSONART INTERNATIONAL, INC. P.O. BOX 6110, Temple, TX 76503-6110 Information Phone: 254-207-7000 or 800-433-3222	In Case of CHEMTREC: Emergency 800-424-9300 (USA) 703-527-3857 (International)	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Acetone	67-64-1	15-40	TWA: 750 ppm ACGIH (TLV) [United States] STEL: 1000 ppm ACGIH (TLV) [United States]
Toluene	108-88-3	5-15	TWA: 100 ppm STEL: 150 ppm OSHA (PEL) [United States] TWA: 50 ppm ACGIH (TLV) [United States]
Hexane isomers	N/A	15-40	TWA: 1760 mg/m ³ CEIL: 3500 mg/m ³ ACGIH (TLV) [United States] TWA: 500 ppm STEL: 1000 ppm ACGIH (TLV) [United States]
N-hexane	110-54-3	1-5	TWA: 176 mg/m ³ ACGIH (TLV) [United States] TWA: 50 ppm ACGIH (TLV) [United States]

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Emergency Overview	DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
Routes of Entry	Absorbed through skin. Skin contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<p>Eyes This product is an eye irritant.</p> <p>Skin Irritating to skin. Prolonged skin contact may cause dermatitis with drying and cracking of skin. Permeator (absorbed through the intact skin).</p> <p>Inhalation Harmful if inhaled. Inhalation of vapors may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. Narcotic effect may cause nervous system disturbances. Peripheral neuropathy (numbness in limbs). Severe over-exposure can result in death.</p>

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Ingestion	Not an expected route of entry. Ingestion may cause severe gastric disturbances. May cause headache, nausea, vomiting, pain, weakness, dizziness, gastrointestinal irritation, convulsions, respiratory failure, central nervous system depression, unconsciousness, and may be fatal.
Potential Chronic Health Effects	Long term skin contact to solvents may produce defatting of the skin and dermatitis. Over-exposure by inhalation may cause respiratory irritation, central nervous system depression and peripheral nervous system effects.
Medical Conditions Aggravated by Overexposure:	Preexisting eye and skin disorders.
Overexposure / Signs/Symptoms	Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening. Inhalation of vapors may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation.
See Toxicological Information (section 11)	

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	Wash contaminated skin with soap and water. If the product got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible. Place the victim under a deluge shower. If irritation occurs, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Oxygen may be administered if breathing is difficult. If irritation, or difficult breathing, persists, seek immediate medical attention.
Ingestion	Do not induce vomiting. Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. Seek medical attention.
Notes to Physician	Sudden death due to ventricular fibrillation has been reported from acute inhalation in chronic solvent abusers. Treat patient supportively. Life support measures should be provided because CNS depression, cardiopulmonary failure, and metabolic acidosis have been reported in massive overexposures.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable.
Auto-ignition Temperature	The lowest known value is 225°C (437°F) (Hexane isomers).
Flash Points	CLOSED CUP: -8.8689°C (16°F). (Pensky-Martens.)
Flammable Limits	LOWER: 2% UPPER: 13%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat. Slightly flammable to flammable in presence of oxidizing materials, of reducing materials, of combustible materials. Non-flammable in presence of moisture.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive to explosive in presence of oxidizing materials.

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Wilsonart® 860/861**Fire Fighting Media and Instructions****SMALL FIRE:** Use DRY chemical powder.**LARGE FIRE:** Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.**Protective Clothing (Fire)**

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Special Remarks on Fire Hazards

Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions or when heated.

Special Remarks on Explosion Hazards

All electrical equipment in the area must be rated for flammable liquids. [Dispensing - Class I Division 1; Storage - Class I, Division 2]

Section 6. Accidental Release Measures**Small Spill and Leak**

Absorb with an inert material and place in an appropriate waste disposal container.

Large Spill and Leak

Flammable liquid. Eliminate all ignition sources. Stop leak if without risk. Prevent entry into sewers, basements or confined areas; dike if needed. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Do not use metal tools or equipment.

Section 7. Handling and Storage**Handling**

Avoid breathing vapors of this product. Use only with adequate ventilation. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. When using do not eat, drink or smoke.

Storage

Store and use away from heat, sparks, open flame, or any other ignition sources. Flammable materials should be stored in a separate safety storage cabinet or room. Keep out of the reach of children. Ground all equipment containing material.

Section 8. Exposure Controls/Personal Protection**Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection**Eyes** Splash goggles or safety glasses with side shields.**Body** Synthetic apron.**Respiratory** In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridges with dust/mist pre-filter.**Hands** Gloves (Viton, nitrile, or neoprene).**Feet** No special precautions are necessary if used as intended.**Protective Clothing (Pictograms)****Personal Protection in Case of a Large Spill**

A self contained breathing apparatus should be used to avoid inhalation of the product. Boots. Full suit. Splash goggles. Gloves (Viton, nitrile, or neoprene).

Product Name**Exposure Limits**

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Acetone	TWA: 750 ppm ACGIH (TLV) (United States) STEL: 1000 ppm ACGIH (TLV) (United States)
Toluene	TWA: 100 ppm STEL: 150 ppm OSHA (PEL) (United States) TWA: 50 ppm ACGIH (TLV) (United States)
Hexane isomers	TWA: 1750 mg/m ³ CEIL: 3500 mg/m ³ ACGIH (TLV) (United States) TWA: 500 ppm STEL: 1000 ppm ACGIH (TLV) (United States)
n-Hexane	TWA: 175 mg/m ³ ACGIH (TLV) (United States) TWA: 50 ppm ACGIH (TLV) (United States)
Consult local authorities for acceptable exposure limits.	

Section 9: Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Strong.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Red (860). Colorless to light yellow (861).
pH (1% Soln/Water)	Not available.		
Boiling/Condensation Point	55.6°C (132°F)		
Melting/Freezing Point	May start to solidify at -94.5°C (-138.1°F) based on data for: Toluene. Weighted average: -95.06°C (-139.1°F)		
Critical Temperature	The lowest known value is 234.2°C (453.6°F) (Hexane isomers).		
Specific Gravity	0.757 (Water = 1)		
Vapor Pressure	185 mm of Hg (@ 20°C)		
Vapor Density	The highest known value is 3.14 (Air = 1) (Toluene). Weighted average: 2.64 (Air = 1)		
Volatility	82%		
Odor Threshold	The highest known value is 13 ppm (Acetone) Weighted average: 10.22 ppm		
Evaporation Rate	The highest known value is 7.7 (Acetone) Weighted average: 6.24 compared to Butyl acetate.		
VOC	V.O.C. Content (less water and exempt compounds): 598 g/L; 4.89 lbs./ga. MAXIMUM VOC: 422 g/Liter (SCAQMD) VHAP CONTENT: 0.83 lbs. VHAP/lbs solid.		
Viscosity	200 cps (Brookfield Viscometer) 16 sec (Stormer Viscometer)		
LogK _{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in water.		
Physical Chemical Comments	Not available.		

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Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	No additional information.
Incompatibility with Various Substances	Reactive with acids, alkalis, combustible materials, oxidizing agents, reducing agents.
Hazardous Decomposition Products	Products of Combustion Include: carbon oxides (CO, CO ₂)
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): 2600 mg/kg [Rat]. (Toluene). Acute dermal toxicity (LD50): 12210 mg/kg [Rabbit]. (Toluene).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not classifiable for human or animal. MUTAGENIC EFFECTS: Classified none for human. TERATOGENIC EFFECTS: Classified PROVEN for human [Toluene]. DEVELOPMENTAL TOXICITY: Classified Development toxin [PROVEN] [Toluene]. Causes damage to the following organs: the nervous system. N-hexane is a neurotoxin. Toluene has been reported to have caused spontaneous abortion in women that intentionally concentrated and inhaled its vapors.
Other Toxic Effects on Humans	Skin contact (irritant, permeator), eye contact (irritant).
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional information.
Special Remarks on Other Toxic Effects on Humans	No additional information.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	No additional remark.

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Section 13. Disposal Considerations**Waste Information**

Spilled, contaminated, or waste material should be put into a suitable container and handled according to local, state/provincial, and federal regulations. Contact a qualified waste management company in your area for assistance.

EMPTY CONTAINERS: Empty containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations.

"Empty" drums should not be given to individuals. Serious accidents have resulted from the misuse of "emptied" containers. Residual vapors may in the container(s) may be explosive. Do not cut, weld, or braze these containers.

Waste Stream

Not available.

Consult your local or regional authorities.

Section 14. Transport Information**DOT Classification**

DOT CLASS: Flammable liquid.



Adhesives, 3, UN1133, II, Limited Quantity: 1 L

Marine Pollutant

Not a marine pollutant.

Special Provisions for Transport

1 Liter or less may use Limited Quantity exceptions (49CFR 173.150)

ADR/RID Classification

Class 3: Flammable liquid A.

IMO/IMDG Classification

Class 3.2: Flammable liquid (Intermediate flashpoint group of liquids having a flashpoint of -18°C (0°F) up to, but not including, 23°C (73°F) c.c.).

ICAO/IATA Classification

Class 3: Flammable liquid.

Section 15. Regulatory Information**HCS Classification**

HCS CLASS: Flammable liquid 1B having a flash point lower than 22.8°C (73°F) and a boiling point higher or equal to 37.8°C (100°F).

U.S. Federal Regulations

TSCA 4(a) proposed test rules: Acetone; N-hexane

TSCA 4(a) final test rules: N-hexane

TSCA 8(b) inventory: Acetone; Toluene; N-hexane

TSCA 8(d) H and S data reporting: Toluene: 10/04/92

TSCA 12(b) one time export: Acetone; N-hexane

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Acetone; Toluene; N-hexane

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: Acetone; Toluene: 1%; N-hexane: 1%

Clean water act (CWA) 307: Toluene

Clean water act (CWA) 311: Toluene

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

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WilsonartTM 860/861**International Regulations****EINECS** Not available.**DSCL (EEC)**

R12- Extremely flammable.
 R28- Very toxic if swallowed.
 R36- Irritating to eyes.
 R43- May cause sensitization by skin contact.

International Lists Australia: Acetone; Toluene; N-hexane

China: Acetone; Toluene

Germany water class: Toluene; N-hexane

VCI WGK: Toluene

Korea (TCCL): Acetone

State Regulations

Connecticut carcinogen reporting list: Toluene
 Pennsylvania RTK: Acetone; Toluene; N-hexane
 Florida: Acetone; Toluene; N-hexane
 Minnesota: Acetone; Toluene; N-hexane
 Massachusetts RTK: Acetone; Toluene; N-hexane
 New Jersey: Acetone; Toluene; N-hexane
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene

Section 16. Other Information**Label Requirements**

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.
 HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE
 AND SKIN IRRITATION.

**Hazardous Material
Information System
(U.S.A.)**

Hazard	2
Fire Hazard	3
Reactivity	0
Personal Protection	C

**National Fire
Protection
Association
(U.S.A.)**

**References**

-SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984.

GLOSSARY:

ACGIH - American Conference of Governmental Industrial Hygienists

ASTM - American Society for Testing and Materials

ADR - Agreement on Dangerous Goods by Road (Europe)

BOD5 - Biological Oxygen Demand in 5 days

CAS - Chemical Abstract Services

CEPA - Canadian Environmental Protection Act

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act

CFR - Code of Federal Regulations

DOT - Department of Transportation

DSCL - Dangerous Substances Classification and Labeling (Europe)

DSL - Domestic Substance List (Canada)

EEC/EU - European Economic Community/European Union

EINECS - European Inventory of Existing Commercial Chemical Substances

HCS - Hazard Communication System

HMIS - Hazardous Material Information System

IARC - International Agency for Research on Cancer

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LD50/LC50 - Lethal Dose/Concentration kill 50%
 LDLo/LCLo - Lowest Published Lethal Dose/Concentration
 NFPA - National Fire Prevention Association
 NIOSH - National Institute for Occupational Safety & Health
 NTP - National Toxicology Program
 OSHA - Occupational Safety & Health Administration
 PEL - Permissible Exposure Limit
 RCRA - Resource Conservation and Recovery Act
 SARA - Superfund Amendments and Reorganization Act
 STEL - Short Term Exposure Limit (15 minutes)
 TDG - Transportation of Dangerous Goods (Canada)
 TLV-TWA - Threshold Limit Value-Time Weighted Average
 TSCA - Toxic Substances Control Act
 WHMIS - Workplace Hazardous Material Information System

Other Special Considerations

TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA Inventory.
 EINECS: All components of this product are on the European Inventory of Existing Commercial Chemical Substances.

Validated by Wilsonart International Inc. on 08/17/1999.

Verified by Wilsonart International Inc.

Printed 09/27/1999.

CHEMTREC:

800-424-9300 (USA)
 703-527-3887 (International)

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